

MUIBuilder_English ii

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MUIBuilder_English iii

Contents

1	MUI	[Builder_English	1
	1.1	MUIBuilder_English.guide	1
	1.2	MUIBuilder_English.guide/Introduction	2
	1.3	MUIBuilder_English.guide/Advantages	2
	1.4	MUIBuilder_English.guide/Principles	3
	1.5	MUIBuilder_English.guide/Distribution	4
	1.6	MUIBuilder_English.guide/Disclaimer	4
	1.7	MUIBuilder_English.guide/Tutorial	5
	1.8	MUIBuilder_English.guide/Use	6
	1.9	MUIBuilder_English.guide/Prefs	7
	1.10	MUIBuilder_English.guide/Save	8
	1.11	MUIBuilder_English.guide/Code	8
	1.12	MUIBuilder_English.guide/Options	9
	1.13	MUIBuilder_English.guide/code-application	10
	1.14	MUIBuilder_English.guide/code-object	10
	1.15	MUIBuilder_English.guide/remove-label	10
	1.16	MUIBuilder_English.guide/add-label	11
	1.17	MUIBuilder_English.guide/Locale	11
	1.18	MUIBuilder_English.guide/Catalog	11
	1.19	MUIBuilder_English.guide/Amigaguide	12
	1.20	MUIBuilder_English.guide/Remarks	13
	1.21	MUIBuilder_English.guide/Special Chars	13
	1.22	MUIBuilder_English.guide/Objects Line	14
	1.23	MUIBuilder_English.guide/Resizable Interface	15
	1.24	MUIBuilder_English.guide/Objects	15
	1.25	MUIBuilder_English.guide/Area	16
	1.26	MUIBuilder_English.guide/Application	17
	1.27	MUIBuilder_English.guide/Window	17
	1.28	MUIBuilder_English.guide/tmp-list	19
	1.29	MUIBuilder_English.guide/Group	19

MUIBuilder_English iv

1.30	MUIBuilder_English.guide/List	20
1.31	MUIBuilder_English.guide/Dirlist	21
1.32	MUIBuilder_English.guide/String	22
1.33	MUIBuilder_English.guide/Button	22
1.34	MUIBuilder_English.guide/Label	22
1.35	MUIBuilder_English.guide/Cycle	23
1.36	MUIBuilder_English.guide/Radio	23
1.37	MUIBuilder_English.guide/CheckMark	23
1.38	MUIBuilder_English.guide/Image	24
1.39	MUIBuilder_English.guide/Slider	25
1.40	MUIBuilder_English.guide/Gauge	25
1.41	MUIBuilder_English.guide/Text	26
1.42	MUIBuilder_English.guide/Scale	26
1.43	MUIBuilder_English.guide/Prop	27
1.44	MUIBuilder_English.guide/Space	27
1.45	MUIBuilder_English.guide/PopAsl	27
1.46	MUIBuilder_English.guide/PopObject	28
1.47	MUIBuilder_English.guide/Rectangle	29
1.48	MUIBuilder_English.guide/Colorfield	29
1.49	MUIBuilder_English.guide/Menus	30
1.50	MUIBuilder_English.guide/Notification	30
1.51	MUIBuilder_English.guide/Functions	31
1.52	MUIBuilder_English.guide/Variables	32
1.53	MUIBuilder_English.guide/Constants	32
1.54	MUIBuilder_English.guide/Future	32
1.55	MUIBuilder_English.guide/Greetings	33
1.56	MUIBuilder_English.guide/Index	34

MUIBuilder_English 1/37

Chapter 1

MUIBuilder_English

1.1 MUIBuilder_English.guide

MUIBuilder documentation by Eric Totel

This document describes what it is necessary to know to use $\operatorname{MUIBuilder}$ in the best conditions.

Introduction

Principles

What notions does this program use ?

Distribution

Read this first !

Disclaimer

No Warranty !!

Tutorial

An example for beginners.

Use of MUIBuilder

How to use MUIBuilder?

Objects

Notification

Events notifications.

GUI objects.

Future Improvements
What i hope to make in a near future.

Greetings
Thanks to all of you, guys !!

MUIBuilder_English 2/37

Index

What do you want to know about ??

1.2 MUIBuilder English.guide/Introduction

Introduction

Thanks for trying MUI-Builder !!!

MUI-Builder is a tool that I hope you find to be user-friendly. It is, however, far from perfection.

Please feel free to send me all your ideas and opinions about this software so it may evolve in the way you'd like.

With MUI-Builder, you'll be able to write MUI applications without writing lines of source code nor knowing anything about MUI functions' syntax (even though MUI is simple in itself).

MUI-Builder's aim is to let you create a graphic interface without technical problems, and with no more effort than thinking about your final goal.

At the beginnning, I wrote this program only for my own needs and for learning how to use MUI. MUI is a wonderful tool written by Stefan Stuntz

I hope you find this program as useful as I've already found it.

Advantages

Why should you use this program ?

1.3 MUIBuilder_English.guide/Advantages

Advantages of MUIBuilder

Many people will wonder about the usefulness of this program, as MUI is simple to program in the first place.

The advantages that I and all the beta-testers have found in using $MUI-Builder\ follow:$

1. MUI-Builder is a simple way to quickly learn the principles of MUI

MUIBuilder_English 3 / 37

programing by reading the generated source code.

2. MUI-Builder is a sort of MUI interpreter. You are able to test the look of your application's GUI and see how the result will appear in real time.

- 3. MUI-Builder offers the user a great flexibility in source code generation. You will be able to select precisely which object code you want to generate, with or without the declarations, initializations, localization ...
- 4. You can finally build the online help of your application directly from the application builder.
- 5. It is the very first builder that provides for easy localization !
- 6. In this new version appear fantastic :) new functions, that you have never seen before in similar tools on Amiga. It is now possible to build the events notifications directly from the interface builder AND TO TEST THEM.

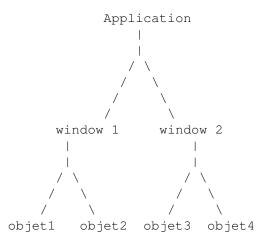
1.4 MUIBuilder_English.guide/Principles

Principles ******

MUI-Builder works on the same principles as MUI, and the two programs are intricately interwoven. My first advice is to read MUI documentation to better understand how it works.

 ${\tt MUI-Builder}$ allows you to create the complete interface of an application. For example, all the windows of this application were created with ${\tt MUI-Builder.}$

Each application is made up of a hierarchy of interface objects. As an example, the following diagram depicts a possible application.



MUI-Builder is aimed at letting you create this tree simply by using a simple user-friendly graphic interface (at least, I hope so).

MUIBuilder_English 4/37

1.5 MUIBuilder_English.guide/Distribution

This distribution consists in a lharc archive. This archive must not be modified in any case. This program must not and can't in any way be distributed on another form, without the written permission of the author.

Moreover, this program may be freely distributed, as long as no charges more than reasonable copying and handling fees are collected. (must not be more than 4\$-US, 15FF, 4.DM). For any other type of distribution, you must have the permission of the author. This program may be included in freeware collections, providing that the previous conditions are respected.

MUIBuilder is Giftware.

This means you are absolutely NOT forced to send me money to go on using this program. But, if you really like this software or find it really useful, then you are may send about 15 \$US or 50FF to the following address:

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26 route de Montsuzain
10150 Voue
France

E-Mail : Eric.Totel@ramses.fdn.org

Fidonet: 2:320/104.56

If you didn't enjoy MUI-Builder enough to send me some money, please send me a postcard, a letter, an email to encourage me, give me some ideas or remarks ... and so on ... Some people sent me some programs they made: what an excellent idea!! It seems to me it is one of the best gifts you can send to me! If you use MUIBuilder, i would be happpy if you write it in your documentation ...

Don't hesitate at all to write me : I absolutely want to know if further developments of MUI-Builder will be really useful and appreciated.

Please don't send files at this e-mail address. Just write a message, and i will tell you where you can send files to me !! Thanks in advance!

1.6 MUIBuilder_English.guide/Disclaimer

MUIBuilder_English 5 / 37

Disclaimer

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDER AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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1.7 MUIBuilder_English.guide/Tutorial

Tutorial *****

To help beginners to understand quickly how this program must be used, i've included a little tutorial example.

We will build step by step a little GUI, whose goal will be to display a simple text when we click on some buttons.

- * First of all we have to create a window (New Window button in the main window).
- * Select the only group in the list containing the GUI objects, and click on the Add Object button.
- * Choose a Text object, define its parameters (you don't need to modify anything at this time) and click on Ok.
- * Your Text object is now inserted in your GUI tree.
- * Now add a group (choose an horizontal group by checking the Horizontal attribute to TRUE).
- * If everything goes well, you'll see the group name just under the text object: select this group, and add three buttons in it. Just define their titles '1st button', '2nd button' and '3rd button' and their shorcuts '1', '2' and '3'.
- \star Your GUI is now completed ! Now we will define the notifications

MUIBuilder_English 6 / 37

on these objects.

 \star Select the first button, and click on the Notify button.

* In the window which appears, choose the Release button event, then the text object you previously created, and at last the Put a constant value action. Add this notification simply by double-clicking on the action name, or click on the Add notify. MUIBuilder will ask for a string for you to enter. Enter '1st button selected'. Once added, quit the notification window.

- * Repeat the previous operation on the two other buttons : enter '2nd button selected' and '3rd button selected' as constant strings.
- * Once you've returned to the creation window, just press the Test button, and click on the buttons of your GUI.

This is of course a really little GUI, but i hope it will always be as easy to do bigger ones !! MUIBuilder should be able to help to build some tricky interfaces now ... or at least i hope so !!! :-)

1.8 MUIBuilder_English.guide/Use

Use of MUIBuilder

The principles on which $\mbox{MUI-Builder}$ is used can be classified in the following headings.

Configuration

Preferences choices.

Saving

How to save an application ?

Code

Code generation.

Localization

Locale support.

Amigaguide

OnLine Help generation

Comments

useful comments !

MUIBuilder_English 7 / 37

1.9 MUIBuilder_English.guide/Prefs

MUIBuilder Preferences

This configuration Panel offers many choices for parameters for the program. All choices will be saved in an environment variable (ENV:MUIBuider.env) which is creating when you are installing MUIB.

There are the following choices :

- 1. Ghost windows: to see ONLY one window of MUIBuilder at a time. (very useful for slow computers, and for people who dislike having too many windows on the screen!)
- 2. Icons : select it if you want an icon created with the save file
- 3. Requests : select it if you want all the warning requesters
- 4. Test: if you select this option, you will see the result for your work during the building you your GUI.
- 5. Code : chose your generator module
- 6. Editor : You must specify here the name of your favorite editor. This editor should be run in a synchronous way ! (i.e. not as a background task). the following editors should work without any problems:
 - * Vim (v2.0 and latter) : with the '-x' option
 - * CygnusEd : with the '-keepio' option
 - * GoldEd : with the 'STICKY' option
 - * TurboText : with the 'WAIT' option
 - * Ed : default editor
- 7. GetString: If you enter a string here, it will be the default name of the 'GetString' function which is used to localize your program. If this String is EMPTY, then MUIBuilder will create a name using the application name ('GetApplicationNameString').
- 8. Depth: allows you to define the minimal depth used when displaying the tree hierarchy in the creation window.
- 9. Character: this character is inserted in the tree display to make hierarchy more readable.
- 10. Label: if you set this option, the names of the objects will appear to make the hotkay visible.
- 11. Columns : number of columns used to display the image objects.
- 12. Images Location: The directory where you can find the objects

MUIBuilder_English 8 / 37

images.

Once you have selected these options, you can save them by selecting the corresponding button. When you save the preferences, it saves your working directory too (in the environnment variable of course).

1.10 MUIBuilder_English.guide/Save

Application save file

The SAVE and LOAD buttons will respectively save to and load from a file the interface of the application you're creating. The Asl requester will open on your working directory (defined in the MUIBuilder.env variable). Using these buttons, you can continue with a previously unfinished application, or modify an already existing application.

Note that the MUIBuilder main window is an AppWindow. You can therefore load an MUIBuilder save file by dropping its respective icon on the window.

Moreover, most of you will see that the save files is an ascii file. So it is easy to edit it using a text editor. Please don't modify them in this way: there are a lot of chances that you corrupt the file ...

1.11 MUIBuilder_English.guide/Code

Code generation

When you click on the 'Code' button of the MUI-Builder main window, you start the generation of the source code.

 ${\tt MUI-Builder}$ will verify that you haven't used the same label for two different objects twice.

If everything goes well, you'll see two lists:

You will be able to control very precisely the way MUI-Builder will generate the labels in your code. If you don't care about this option, MUI-Builder will do everything automatically for you!

Before generating the source code, you'll have to define the options. (see

Options

MUIBuilder_English 9/37

) .

Then you will see the following buttons :

Options

Generation options.

Application Code

Code generation for the whole \leftrightarrow application

Object Code

Code generation for a stand-alone $\ensuremath{\leftarrow}$

object

Remove Label

Delete of a label generation.

Add Label

Add of a label generation.

The software actually creates generic code, which is more a description of the program than a real compilable source.

After this generic code is created (temporary file in 'T:'), MUIBuilder executes one of the code-generation modules (located in the 'modules' directory) which uses the temporary file. Actually most languages are available.

If you feel good enough (!!!) to program a module for you favorite language: feel free to contact me !!! I'll explain to you how to use the generic code to create the source of the alien language !!! The muibuilder.library provides some functions to help you to create the code in your language.

1.12 MUIBuilder English.guide/Options

Code generation : Options

Five options are available :

- Declarations: to obtain the declarations and initializations in your source
- * Environnement:select it if you want to generate code for includes, event loop, procedure declaration ...
- * Code:select it if you want to generate the MUI code.
- * Locale:to generate localize code (see

MUIBuilder_English 10 / 37

Locale).

* Notifications:to generate notifications source code.

Note that each option may be selected independently from the others. You can also create exactly the part of the code you desire \dots

Example:

You've created a window and you want to add a button in your code. Select only the 'Code' option and create it will create the button code! After inserting this text in the program, you'll need the declaration of the object button in your source. Select 'Declaration' ... and insert the generated text directly where you want in your source!

1.13 MUIBuilder_English.guide/code-application

Application code

This button enables you to generate the source code for the whole application. The generated source will depend on the options you previously choose.

1.14 MUIBuilder_English.guide/code-object

Object code

This button enables you to generate the source code of an object you previously chose in the 'Objects labels' list. This operation can really be of interest, if you want to be able to create stand-alone MUI objects: for example, you could be able to generate each window independently, or include an object in more than one window by calling the function creating this object.

1.15 MUIBuilder_English.guide/remove-label

Remove a label

By selecting this button, you can deactivate the code generation for the object selected in the 'Generated Labels' list.

MUI-Builder automatically knows if it has to generate the label of

MUIBuilder_English 11/37

each object. For example it is often useless to keep a pointer variable to a MUI-Group, unless you want to dynamically add objects to this group during the execution of the program.

```
This button, and the 'Add label' button (see
Add a label
) allow you
to change MUI-Builder standard definitions on objects.
```

1.16 MUIBuilder_English.guide/add-label

```
Ajouter un label
------

By clicking on this button, you tell MUI-Builder to generate the label of the selected object (see
Remove a label
).
```

1.17 MUIBuilder_English.guide/Locale

Localisation

When you select the 'Locale' Option in the code-generation window, you chose to generate localized source code. In fact, all strings and shortcuts will be replaced by a call to a 'GetString' function (which should return a locale string from your catalog file).

A lot of program are able to generate this function for you (${\tt Catcomp}$ and ${\tt Flexcat}$ for examples).

The name of the 'GetString' function can be chosen either in the preferences window, or in the code-generation window.

If you don't know how to use these features, please take a look at the examples included in the MUIBuilder archive.

Catalog

Catalog description file.

1.18 MUIBuilder English.guide/Catalog

MUIBuilder_English 12 / 37

Catalog

The name of the '.cd' file must be given before generating the Catalog.

Here is a summarize of what is necessary to know about the catalog description file ('xxxx.cd' file)

You'll find in this file all the strings of your program in the default language.

Thanks to that file, you will be able to create automatically (with ${\tt Catcomp}$ or ${\tt Flexcat}$):

- * the translation file ('xxxxx.ct' file) in which you'll find the strings in a foreign language.
- \star the program source file corresponding to your favorite language.

To all beginners who still don't know how to localize a program, i suggest to use the now well-known Flexcat program (by Jochen Wiedmann) which will provide you the possibility to generate code in most languages.

1.19 MUIBuilder_English.guide/Amigaguide

In line help generation

You will be able to make your online help directly from your favorite interface builder (MUI-Builder of course!!!).

You are able to attach a help text to each MUI-object created by $\ensuremath{\text{MUI-Builder}}\xspace.$

Then MUI-Builder will automatically create a hypertext documentation in AmigaGuide Format (that you will be able to view by clicking the $^{\prime}$ View $^{\prime}$ button).

As with code generation, you create only one part of the documentation for insertion directly into your previously written documentation.

You can edit the text of the documentation :

- * the main text with the App Node button
- * a window text with the Window Node button
- * an object text with the Object Node button

You are able to create the documentation :

MUIBuilder_English 13 / 37

- \star for the application with the Generate whole Doc Button
- * for a window with Generate win Doc
- * for an object with Generate obj Doc

By double-clicking on an object or a window name, you can edit the title of the associated help-text, and view it. (same as the Edit buttons).

When you create the source code, MUIBuilder will generated a MUIA_Help_Node attribute to each object whose text is non-empty and which you declared as generated. The generated file is designed to be an online-help ... not really a real documentation ...

1.20 MUIBuilder English.guide/Remarks

Some details to know about

There are a lot of details (tips and hints !!) that you will find in this section, and could be (in my humble opinion) really useful ...

Special Chars

Objects Line

Resizable Interface

1.21 MUIBuilder_English.guide/Special Chars

```
Special Chars
------
In EVERY text of your interface, you can insert the following
special characters:

\n
    newline
\r
    carriage return

\t
    tabulation
\e
    escape
```

MUIBuilder_English 14/37

```
backslash character \
    a double quote
\xNN
     the character of ascii code NN (in hexadecimal)
\nnn
    the character of ascii code nnn ( in octal )
\c
     c if c is any other caractere Here are some examples :
\033b
    to print a bold text
\033n
    to come back to normal text
\0338
    to display a white text
\033c
    to center the text
\0331
    to justify left
\033r
                              Note that you have to type '\"' instead
    to justify right
of ^{\prime}" when you want double-quote. Otherwise, you'll get errors when
compiling. Moreover ' \setminus 033' is the same as ' \setminus e'. Don't forget to enter
'\033' instead of '\33' !!!
```

1.22 MUIBuilder_English.guide/Objects Line

Objects lines

To line up some objects, you just have to include them in a multi column (vertical lining) or a multi-lines (horizontal lining) group (most of the time multi column)

Some objects (Slider, CheckMark, String) have a title proposed by MUIBuilder. These titles don't exist in MUI: to give you this possibility, MUIBuilder include the object and its title in an horizontal group. So you won't be able to line up these objects, if you use this feature: just use some labels + objects without title in some multicolumn groups.

MUIBuilder_English 15 / 37

1.23 MUIBuilder_English.guide/Resizable Interface

Resizable interface

One of the frequently asked questions is : "after i added some objects in my window, the GUI is no longer resizable" : only one answer to give : use Space objects and add them in your GUI!

1.24 MUIBuilder_English.guide/Objects

Objects

MUIBuilder enables you to create every MUI objects that you would like to include in you application. These objects can be created or modified in the main creation window (after you pressed the New Window button in the main window).

MUI-Builder's objects are the followings :

Area

Application

Window

Group

List

DirList

String

Button

Label

Cycle

Radio

CheckMark

Image

Slider

Gauge

MUIBuilder_English 16 / 37

Text

Scale

Proportional gadget

Space

PopAsl

Pop Object

Rectangle

Color Field

Menus

1.25 MUIBuilder English.guide/Area

Area Object

Every MUI objects that inherits from the Area object include in their GUI a register group. The second page contains some attributes of the Area object that could be set at initialization.

- * Hide: The object won't appear in the GUI, except if it is alone in the window.
- * Disable: the object gets a ghost pattern and doesn't respond to user input.
- * Input Mode: enable to turn an object to a button.
- * Phantom Frame: The frame will not appear.
- * Frame : Defines a frame for the current object.
- * Background: Defines the background you want in your object.
- * Control char : the character needed to activate a given object.
- * Title Frame : a title added in the top of the frame of the object

Some attributes are not provided for some object: this is not a bug ... it's a feature !!! I don't want the user to be able to do something wrong in his GUI (such as making a button with a String frame !!!!).

MUIBuilder_English 17 / 37

1.26 MUIBuilder_English.guide/Application

Application

Your application is the root node of the dependency tree representing your complete graphic interface. By clicking the 'Appli' button in the main window of MUI-Builder, you can set:

- * The 'Base' of the application i.e. the name of the AREXX server of your application
- * the author's name
- * the application's name
- * the version
- * the copyright text
- * a description of your application

Moreover, you'll find in this window :

 \star A menu button, that will open the menu creation window, that will enable you to create the application Menu (see

Menus

). This menu

can't be tested from MUIBuilder, since it must be attached to an application! And i can't create a new application in the MUIBuilder application itself!!!!

 \star The possibility to add notifications on the application (see

Notification).

It can have only one sort of child object: the Window (see Window).

1.27 MUIBuilder_English.guide/Window

Window

=====

You all already know what a window is! But the problem is learning how to make one with MUI-Builder...

The MUI-Builder 'Window attributes' window has two distinct pages, one named 'Creation' and the other called 'Attributes'.

1. The Creation page contains 2 lists:

MUIBuilder English 18/37

In the fist one, you build your GUI itself. The display offers a hierarchical tree. To fold or unfold a node of the tree, you just have to double-click on the little arrow at the left of the object. Thanks to the buttons between the two lists, you can edit/copy/move the objects of your GUI. Moreover, the menus offer two items Fold and Unfold which will enable you to fold or unfold completely the whole tree. In the two most left columns appear two letters: H (for Help) and G (for generated): they enable the control respectively from the node generation in the guide documenation, and for the label generation in the source code. If you double-click on one of this letter, it toggles the generation either of the AmigaGuide node, or of the label in the source.

* The goal of the right-most list is to store temporarily some objects. (see

Liste temporaire

Groups (see

Group

) are the basics elements to which all other objects (see

Objects

) will be placed. Every time you create an object you will have to declare it as a child of a specific group. You may specify this group by selecting it in the list gadget.

- 2. In the 'Attributes' page, you can find :
 - * Window label and title.
 - * The window attributes themself :
 - AppWindow: if you want your window to be a appwindow
 - Borderless: if you don't want a border
 - Depth gagdet: if you want a depth gadget
 - Size gadget: if you want a size gadget
 - BackDrop: to have a window in the background
 - Close gadget: to put a close gadget in the window
 - Dragbar: enables the window to be dragged
 - Open at Init: (IMPORTANT) this specify if you want your window to be opened when your application will be created.

List temporaire

MUIBuilder_English 19/37

1.28 MUIBuilder_English.guide/tmp-list

Temporary List

In this list you can put objects you want to move from a group to another one, or from a window to another one. The list content won't be deleted when you delete your application, or when you load a new one. In this way, you will be able to transfer an object from an application to another one ...

1.29 MUIBuilder_English.guide/Group

Group

When you create a new window, it already has a group default child. This child object is the root group. You define a window by attaching children (see

Objects

- * Horizontal: The objects of the group will be placed horizontally.
- * Register: The group will show only one of its children at a time. After selecting this attribute, you must go to the 'Register' entries page to chose the names of the pages of the register.
- * Same Height: The all chidlren of the group will have the same height.
- * Same Width: The all children of the group will have the same width.
- * Same Size: The all children of the group will have the same size.
- Virtual: The group will be virtual.
- * Columns: Format the group in columns. Enter the number of columns in the string gadget.
- Lines: Format the group in rows. Enter the number of rows in the string gadget.
- * Spacing
 - Horizontal : enables you to control horizontal spacing between the objects.

MUIBuilder_English 20 / 37

```
- Vertical: enables you to control vertical spacing between the objects. This object inherits from the Area object (see

Area Object
).
```

1.30 MUIBuilder_English.guide/List

```
List.
====
  To completely define a list, you must specify :
   * its label
   * if 'double click' is enable or not
   * if the multiselection is enable
   * If the list is in input mode or not
   * If the vertical size must be adjusted at creation or not
   * If the horizontal size must be adjusted at creation or not
   * The part of the list you want to show to user (activate):
        - No special positionning
        - Show the first entry
        - Show the last entry
   * the type of the list
        - a standard list
        - a floattext list, that allows to show texts. You can enter a
          text in the corresponding string gadget Float Text)
        - a list of volumes ( volumes + assigns )
   \star The function hooks can be defined too, but they are not absolutely
     necessary to make the list usable (see MUI-Autodocs!) :
        - Construction : called when you insert an object in the list
        - Destruction : called when you delete an object in the list
        - Compare : called when you sort the list
        - Display: called when you display an object
        - Multitest : called when you perform multiselection
   \star The format of the list enables to define multicolumn lists (not
     tested directly in MUIBuilder).
```

MUIBuilder_English 21 / 37

```
* The list title. Note that there is an other type of list called a DirList (see

DirList

) This type of list can be created by clicking on its button in the 'Object Choice' window.

This object inherits from the Area object (see Area Object

).
```

1.31 MUIBuilder_English.guide/Dirlist

DirList

The Directory list shows the files and directories in the selected directory. The possible options are :

- * Drawers onlyt: shows ONLY directories
- * File Only: shows ONLY files
- \star $\,\,$ MultiSelection: enables a multiselection of the files in the list
- * Reject Icons: don't show the '.info' files
- * Sort High-Low: reverse sorting order
- * Sort Type: choice of the sort key (Name, Date, Size)
- * Sort Dirs : Three possibilities :
 - Directories appear at the head of the list
 - Directories appear at the tail of the list
 - Directories are mixed with file (following Sort Type option)
- * The directory to read
- * The pattern to accept
- * The pattern to reject

This object inherits from the Area object (see Area Object).

MUIBuilder_English 22 / 37

1.32 MUIBuilder_English.guide/String

```
To completely define a string gadget, you must specify:

* Its title ( that you can replace with your own )

* its label

* the initial content of the string gadget

* a string containing all the letters accepted by the gadget

* a string containing all the letters refused by the gadget

* the maximal length of the string

This object inherits from the Area object (see

Area Object

).
```

1.33 MUIBuilder_English.guide/Button

```
Button

To completely define a button, you must specify:

* its label

* The text that will appear in it

This object inherits from the Area object (see
Area Object
).
```

1.34 MUIBuilder_English.guide/Label

```
Label

To completely define a label gadget, you must specify:

* its label

* the text that appears on screen
```

MUIBuilder_English 23 / 37

```
This object inherits from the Area object (see Area Object ).
```

1.35 MUIBuilder_English.guide/Cycle

```
Cycle Gadget

To completely define a cycle gadget, you must specify:

* the list of its entries

* its label

If you specify a control char for a cycle gadget, please add a label with the same control char, so that the user could see which character he has to use!

This object inherits from the Area object (see

Area Object

).
```

1.36 MUIBuilder_English.guide/Radio

```
Radio Buttons

To completely define a radio gadget, you must specify:

* the buttons' list: to add, delete, rename the entries of this list, just use the buttons at the right of the list.

* its label

This object inherits from the Area object (see Area Object).
```

1.37 MUIBuilder_English.guide/CheckMark

MUIBuilder_English 24 / 37

CheckMark

You can specify wether you want a Title or not (like the strings and sliders) before the CheckMark. If you want a title, you can specify it in the 'title' string gadget Don't forget to specify a label.

This object inherits from the Area object (see Area Object).

1.38 MUIBuilder_English.guide/Image

Image

=====

To define an image for this gadget, you must select the image that you wish to be displayed.

Possible choices are :

- * Free Vertical: the image will resize vertically.
- * Free Horizontal: the image will resize horizontally.
- * Input Mode: the user will be able to select the image.
- * Fix Height: set the image height to a constant specified in the associated string gadget. This makes Free horizontal useless.
- * Fix Width: set the image width to a constant specified in the associated string gadget. This makes Free vertical useless.
- * As with other objects, you must specify the label.

Two notes about the image support in this version 2.2:

- * the popasl gadget provide the ability to enter an image file (which will be displayed using datatypes)
- * It seems there is a problem with dynamically added images in MUI: they seem to not be displayed right. So, when you'll test your application, sometimes the image won't appear. Despite of this, the code should be correctly generated.

This object inherits from the Area object (see Area Object).

MUIBuilder_English 25 / 37

1.39 MUIBuilder_English.guide/Slider

```
You can specify:

* if the current level must be displayed ('Slider Quiet')

* if the slider must be displayed in the reverse mode

* if the slider must have a title or not

Then you must specify:

* the maximum value

* the minimum value

* the initial value

You can also set:

* the title of the object

* ... and its label!

This object inherits from the Area object (see

Area Object

).
```

1.40 MUIBuilder English.guide/Gauge

Gauge

=====

To define a gauge, you must set:

- * its orientation (horizontal or vertical)
- * if you want to set the height of the gauge to a constant value it must be specified in the associated String Gadget. This is especially useful with horizontal gauges.
- * if you want to set the width of the gauge to a constant value it must be specified in the associated String Gadget. This is especially used with vertical gauges.
- * if its value must be 'divided' (then give the associated value)
- * its maximum value

MUIBuilder_English 26 / 37

```
* the info test of the gauge : this little text will be displayed inside the gauge itself. To include in this text the current level of the gauge, just put a %ld in the info text.
```

* its label

```
This object inherits from the Area object (see Area Object ).
```

1.41 MUIBuilder_English.guide/Text

Text

To define a Text Gadget, you must specify:

- * Text_SetMax: the maximum size of the gadget will be its initial size.
- * Text_SetMin: the minimum size of the gadget will be its initial size.
- * Label: Its label in the generated source code

The text must be written in the associated string gadget and can contain every Special character (see

```
Caract_res sp_ciaux ) you can find in a C source code.
```

This object inherits from the Area object (see Area Object

) .

1.42 MUIBuilder_English.guide/Scale

Scale

=====

A scale gadget must be used with a Gauge gadget to display a graduation beside it.

You only have to specify its orientation. Note that only the horizontal orientation is available at this time in MUI.

This object inherits from the Area object (see Area Object

MUIBuilder_English 27 / 37

) .

1.43 MUIBuilder_English.guide/Prop

```
Proportionnal Gadget
Set the following options :
        Horizontal: the gadget must be horizontal
        Fix Width: set the width to a constant specified in the
    associated string gadget.
        Fix Height: set the height to a constant specified in the
    associated string gadget.
  Then you should specify :
  * the number of entries
  * the number of the first entry
   * the number of visible entries
  As always : don't forget the label !
  This object inherits from the Area object (see
               Area Object
               ) .
```

1.44 MUIBuilder_English.guide/Space

Space

This object allows you to insert a space between two other objects so the window can be resized. It can be horizontal, vertical or vertical and horizontal. You can enter the spacing value for both the horizontal and vertical space.

1.45 MUIBuilder_English.guide/PopAsl

MUIBuilder_English 28 / 37

PopAsl

This object enables the inclusion of standard ASL requesters in your GUI. The attributes you can set are:

- * The image you prefer
- \star The type of the requester which could be :
 - File requester
 - Font requester
 - Screen Mode requester
- * There are some hooks you can set:
 - Start hook : called at the requester creation
 - Stop hook : called when you close the requester
- \star the label of the requester

This object inherits from the Area object (see Area Object).

1.46 MUIBuilder_English.guide/PopObject

PopObject

=======

The Popobject provides a list and an image associated with any of the MUI object you can create with MUIBuilder. This object will pop up when you'll click on the popup image. It will appear in the tree hierarchy display as any other object of the GUI, and can be edited in the usual way ... even if it is a group which contains many other objects.

To define this object, MUIBuilder provides :

- * A list with the possible images
- * Some attributes :
 - Follow: The Pop object follows the window
 - Light : The Pop Object is displayed in a borderless window
 - Volatile : The object disappear when you click on the pop image
- * The hooks provided here are :
 - Open Hook : called at the opening of the pop window

MUIBuilder_English 29/37

1.47 MUIBuilder_English.guide/Rectangle

Rectangle

=======

This object is little bit complex, because he offers in fact more than only one object. It enables the creation of :

- A rectangle area in a window
- A horizontal bar, with or without a title to separate objects in a ${\tt GUI}$
- A vertical bar to separate objects in a GUI

You can define the height and width of these objects too.

This object inherits from the Area object (see Area Object).

1.48 MUIBuilder_English.guide/Colorfield

Color Field

This simple object is designed to show a colour on screen. You just have to define :

- \star If you want to fix its height or not
- * If you want to fix its width or not
- * the colour of the field

This object inherits from the Area object (see Area Object).

MUIBuilder_English 30 / 37

1.49 MUIBuilder_English.guide/Menus

Menus

A menu can be attached to a window or the application object. It is made of several titles, sub menus and items. When built, it is similar to a tree hierarchy, and is displayed in this way in the menu creation window.

The only limitation is the depth of the tree which is limited to 2. (In fact : a sub menu can't have a sub menu)

Moreover:

- * The titles, submenus and items can be activated or not using the Enable checkmark
- * The items have acces to some more attributes :
 - It can be Checkable
 - If checkable, you can set its initial state
 - You can define a shortcut for any menu item

1.50 MUIBuilder_English.guide/Notification

Notifications

The events notifications is to my mind the best new feature provided in MUIBuilder 2.0. It's the first time in the amiga history :-) that such a feature is included in an interface builder.

The goal is to provide the possibility to define links between events and actions. The events come from MUI Object: you will define for a given event the action that will be performed, and on which object it will be performed.

Once a link event-action is builded, it can be tested directly by MUIBuilder, by clicking on the Test button on the creation window. Every action which don't use the application object or/and external program variables can be tested without any problem in MUIBuilder.

The notification window offers :

- \star The list of the possible events generated by the object whose name appears at the top of the window
- * The list of the objects on which an action can be performed. To help you to find a given object, the list entries are organized in a hierarchical order. The window containing the object you are editing appears at first position in this list, then comes the application object, and at least all other windows in the

MUIBuilder_English 31 / 37

application.

* Once you have selected a destination object, the third list contains all actions which can be performed on this object. Some of these actions need some arguments ... MUIBuilder will ask for them if needed.

To add a notification on an object you are currently editing, you need either to double-click on an element of the actions list, or to select the Add Notify button.

The application object collects all actions to make on your program itself (for example external variables modifications, functions call \dots)

When you validate an action, it is possible that it needs a parameter : if so the program will open a request window. The parameter can be of the following types :

Functions

Choice of a function name.

Variables

Choice of a variable name.

Constants

Give a constant.

The choice of an object to which you want to add a notification can be performed in two different ways :

- For a window : by clicking on the Notify button of the Attributes page
- For an object: by selecting the given object in the creation window and clicking on the Notify button.

1.51 MUIBuilder_English.guide/Functions

Functions

If an action parameter is a function Hook, MUIBuilder ask you for the function name. It opens a window where all the existing functions appear. You can either chose one of the existing functions or create a new one. When you generate the source code, MUIBuilder will generate what is needed to reference these functions.

MUIBuilder_English 32 / 37

1.52 MUIBuilder_English.guide/Variables

Variables

Some actions need a variable as parameter. To get this variable name, MUIBuilder opens a window, in which you can find the list of existing variables. You can either chose one of the existing function or create a new one.

1.53 MUIBuilder_English.guide/Constants

Constants

A constant can have several types:

- * A boolean : 2 possibles values True/False
- * A string
- * An integer
- * A character

Depending on the type of the constant, one of the gadgets of the request window will be activated. You'll have to enter the needed value in this gadget.

1.54 MUIBuilder_English.guide/Future

Many features need to be implemented later to make of this program of the best ever seen !!!:-))) Most of them should have been included in this version! But unfortunately i had no more time to improve it :-(... And as i'm not sure to find enough time to add these features in the next months: I'll release it now!

Here are the enhancements i'd like to be able to see in the future versions :

- \star Some objects to improve (such as Space, PopAsl, Image ...)
- * Some objects to add (such as palette)
- * Arexx support (with some functions to have access to MUIBuilder internals)

MUIBuilder_English 33 / 37

- * Probably a support for MUI custom objects, if nobody releases something similar
- * I want to improve the notification support, to be able to build more complex notifications, keeping the same GUI ...
- \star Improvement of the external code generators : add a GUI and many many options !
- * Add preferences (local and global) to generators
- * To have an interface between MUIBuilder and text editors would be great
- \star I'm waiting for Drag&Drop in MUI to improve the GUI construction
- * The object buttons will probably become images
- * The save files will be improved to enable to edit them easily
- * The catalog generation will be improved : the strings added by hand won't be deleted anymore

As you can see, i have some more months of work before i can begin a new project !!! I'm always waiting for some suggestions !!! :-)

1.55 MUIBuilder_English.guide/Greetings

Greetings ******

MUIBuilder is dedicated to the memory of Pierre Carrette, one of the best amiga programmers I knew \dots

I'd like to thank here every people who helped me and contributed to MUIBuilder (no special order):

- * Lionel Vintenat for the idea of the generic code and the implementation of the 'E language' module.
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MUIBuilder_English 34/37

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1.56 MUIBuilder_English.guide/Index

Index

Application Object

Application

AppWindow

Save

Author

Distribution

Button Object

Button

Catalog

Catalog

Catalog

Locale

CheckMark Object

CheckMark

Code generation

MUIBuilder_English 35 / 37

Prefs

Code generation

Code

Colord Field Object

Colorfield

Configuration

Prefs

Constants

Constants

Cycle Object

Cycle

DirList object

Dirlist

Distribution

Distribution

Events

Notification

External generator

Code

Flexcat

Locale

Flexcat

Catalog

Function Hooks

Functions

Gauge Object

Gauge

General Principles

Principles

Group Object

Group

Icons

Prefs

Image Object

Image

Label Object

Label

Labels

MUIBuilder_English 36 / 37

remove-label

Labels

add-label

List Object

List

Locale

Prefs

Menus

Menus

Notifications

Notification

Objects

Objects

Objects lines

Objects Line

Objet PopAsl

PopAsl

On line help

Amigaguide

Options (code generation) Options

PopObject

PopObject

Proportionnal Object Prop

Radio Object

Radio

Rectangle Object

Rectangle

Requests

Prefs

Resizable interface

Resizable Interface

Save

Save

Scale Object

Scale

Slider Object

 $MUIBuilder_English$ 37 / 37

Slider

Space Object

Space

Special Chars

Special Chars

String Object

String

Temporary files

Code

Temporary List

tmp-list

Test Window

Notification

Text editors

Prefs

Text Object

Text

Tree display

Prefs

Variables

Variables

Window Configuration Prefs

Window object

Window